

Technical Data Sheet : AdyForm R0500

Polypropylene, Random Copolymer

Product Description

The polymer grade is a medium modified polypropylene random copolymer designed for blow moulding and sheet & film extrusion. It offers low density, stress cracking resistance and high chemical resistance. Main applications are extrusion of film for packaging & sheet for stationery folders and displays, the extrusion blow moulding of high gloss monolayer bottles, clear or pigmented, for the packaging of cosmetics, detergents, chemicals and food- stuffs. Suitable for food contact.

Information regarding regulatory status, including supported, prohibited, or restricted applications, is provided in the **Product Regulatory Summary** and the **Safety Data Sheet (SDS)**.

General

Application	Bottles For Consumer Goods; Food Packaging Film; Shrink Film; Stationery Film; Thermoformed Food Containers; Wire & Cable
Market	Flexible Packaging; Wire & Cable
Processing Method	Blown Film, Double Bubble; Extrusion Blow Molding; Injection Blow Molding; Sheet
Attribute	Good Chemical Resistance; High ESCR (Environmental Stress Cracking Resistance); High Gloss; Low Density; Random Copolymer
Internal ref. number	1Q084, BEN8731
Revision	Version 1 : June 2026

Properties.

Typical Properties	Nominal Value±	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	1.8	g/10 min	ISO 1133-1
Density	0.9	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	850	N/mm ²	ISO 178
Tensile Stress at Break, (23 °C, 50 mm/min)	28	N/mm ²	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	25	N/mm ²	ISO 527-1, -2
Tensile Strain at Break, (23 °C, 50 mm/min)	600	%	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	14	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	12	kJ/m ²	ISO 179-1/1eA
(0 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m ²	ISO 179-1/1eA
Thermal			
Vicat Softening Temperature, (A50)	135	°C	ISO 306
Deflection Temperature Under Load, (0.46 N/mm ²)	68	°C	ISO 75B-1, -2

*)These are typical property values not to be construed as specification limits.

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

In cases where higher temperatures are required, please contact your appropriate technical contact for support.

Company Information

For further information regarding the Velogy, please visit <http://www.velogy.com>

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